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(54) CATALYST COMPOSITION FOR OXIDATION REACTION

(57) Abstract:

PURPOSE: To improve the oxidation efficiency of the title catalyst composition by depositing a platinum group element as the first component, an element such as Sn as the second component, and an element such as Ce as the third component on an inorg. carrier, and specifying the ratios of the first component to the second and third components.

CONSTITUTION: (a) One or more kinds of elements selected from platinum group elements, (b) ≈ 1 kind of element selected from a group consisting of Sn, Bi, and

Sb, and (c) ≈ 1 kind of element selected from Ce, Sn, and Te [excluding Sn when Sn is used as the (b) component] are deposited on an inorg. carrier to obtain the catalyst composition. In this case, the atomic ratio (b/a) of the (a) component to the (b) component is controlled to 0.01W5, and the atomic ratio (c/a) of the (a) component to the (c) component is adjusted to 0.001W5. Besides, 0.1W20wt% (a) component, 0.1W20wt% (b) component, and 0.01W20wt% (c) component are deposited. The catalyst is used when a carboxylic or ketonic compd. is produced by oxidizing a hydroxy or aldehydic compd. (excluding saccharides).

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